

Title (en)  
Tube connection structure of fluid pressure-operated apparatus

Title (de)  
Rohrverbindung eines flüssigkeitsgesteuerten Gerätes

Title (fr)  
Raccord de tuyaux pour un appareil à commande par fluide

Publication  
**EP 1013982 A1 20000628 (EN)**

Application  
**EP 99125167 A 19991217**

Priority  
JP 36804198 A 19981224

Abstract (en)  
An insert section (34) of an insert member (28) is inserted into a tube member (26) in a state in which the insert member (28) is detached from a recess (29) to form a diametrically expanded section (39) on the tube member (26). Subsequently, the insert member (28) is fitted to the recess (29) to install the tube member (26) to the recess (29). At this stage, an outer circumferential surface (40) of an expanded section (36) of the insert member (28) tightly contacts with an inner circumferential surface (42) of the recess (29) to effect the sealing function. Subsequently, a tapered section (56) and an outer circumferential surface of the tube member (26) are resin-welded by using a welding material (58). Thus, the tube member (26) is prevented from disengagement from a body (18). <IMAGE>

IPC 1-7  
**F16L 47/02**

IPC 8 full level  
**F16L 13/02** (2006.01); **F16L 13/14** (2006.01); **F16L 47/00** (2006.01); **F16L 47/02** (2006.01)

CPC (source: EP KR US)  
**F16L 47/00** (2013.01 - KR); **F16L 47/02** (2013.01 - EP US)

Citation (applicant)  
JP 2562781 B2 19961211

Citation (search report)  
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• [A] JP H06174171 A 19940624 - NIPPON PILLAR PACKING  
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• [A] EP 0786324 A1 19970730 - BRAUN MELSUNGEN AG [DE]

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